



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

RECEIVED MEMORANDUM

EPA Region 5 Records Ctr.



351295

SEP 13 1983

DATE: September 8, 1983

TO: Emergency File

FROM: Jack Barnette, Emergency Response Specialist

SUBJECT: Liquid Dripping from Trailers Containing Plastic Film Chips

ILL. E.P.A. - D.L.P.C.
STATE OF ILLINOIS

On August 18, 1983 this writer was informed that a number of trailers containing Plastic film chips from Film Recovery Service in Elk Grove were leaking or leaching liquid to the ground. These trailers are located at: J's Leasing on Joliet Road, McCook; Gemini Leasing on East Avenue, Hodgkins; Eagle Trailer near Archer, Summit; Livco Trailers at 103rd Street, Chicago Ridge; Red Devil Tools, River Road, Rosemont; and Aldens on Roosevelt Road and Cicero Avenue, Chicago.

An inspection was conducted on August 18, 1983 at the Gemini and J's Sites. A brown, odorous liquid was observed dripping from several trailers at both locations. Puddles of brown liquid were noted at both sites. The odor of the liquid was similar to ammonia with a septic/putrid smell. Two samples were collected at the Gemini site. The results of the analyses of these samples is attached to this report.

On August 18th, 1983 the Livco, and the Eagle sites were inspected by Chuck Gruntman of our Land Pollution Division. Gruntman reported conditions similar to what this writer observed. Gruntman indicated that the drippage from the trailers was very slight, and that none of the material appeared to be flowing off the property of either of the inspected sites.

On August 23, 1983 a sample was taken from the J's site in Hodgkins. This result is also included.

On August 24, 1983 this writer met with representatives of the McCook Police and Fire Departments, and a private contractor at the McCook Site (J's) in order to determine a solution to the dripping problem. The liquid dripping from the trailers is believed to be either atmospheric moisture (rain) entering the trailers through cracks or seams, or condensation within the trailers which has leached through the chips and is now dripping out of the floors and sides of the trailers which are in a generally deteriorated

LIQUID DRIPPING FROM TRAILERS CONTAINING PLASTIC FILM CHIPS
September 8, 1983
PAGE 2

condition. - It is believed by this writer that both of these factors may have contributed to the dripping condition of the trailers. It should be noted that a moderately heavy rain fell on this area during the early A.M. of August 16, 1983.

It was determined that the dripping problem would be handled in the following manner:

The contaminated liquid on the ground would be contained with absorbent material and drummed; additional absorbent material would be spread beneath the trailers to collect any continuing drippage; the ground would not be decontaminated and the drummed material would not be removed; cracks and seams along the tops and sides of several of the trailers would be patched or sealed with tar to prevent any additional moisture from entering. A private contractor was hired by this Agency to perform the above work at all six of the storage sites.

On August 26, 1983 work was begun at the J's facility in McCook and at Gemini in Hodgkins. These sites were chosen because the problem seemed to be the most severe at these locations.

On September 6, and 7, 1983 inspections were conducted at all six locations. Heavy rain fell during the evening of September 5, 1983 and throughout the morning of September 6, 1983. All work had been completed at this time. At J's in McCook 8 of the 14 trailers were leaking at a rate of approximately one drop or less per second. A significant accumulation of liquid was observed behind the trailers which are lined up along the north fenceline (along Joliet Road). At least one trailer had standing water on top of it. The liquid dripping from the trailers was brown in color and had an ammonia/putrid odor. At Gemini Leasing in Hodgkins 6 trailers (of 24) were dripping. A significant build-up of leachate was observed under several trailers. This material was similar in color and odor to the liquid noted at J's.

Jim O'Brien of our Emergency Response Unit and Del Haschmeyer, Deputy Director IEPA, were informed of conditions of the trailers on September 7th, 1983.

JB:wn

CC - LPC-Maywood

- Joseph Drazik, A.G.'s Office, Chicago
- ERU - Springfield
- Enf. - Maywood (Gimbel)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SPECIAL ANALYSIS FORM

01198 AUG19

Time Collected 300 PM

Sub-Basin _____

Date Collected 8-18-83Collector Jack Barnette

Facility Name: _____ Facility Number: _____

File Town HodgkinStream Name(s) Gemin Trucking

Stream Code: _____

Source of Sample: (Exact Location) Drip Dripping from Truck
201642 (PR2237) This truck contains plastic chips
from Film Recovery Service, Elk Grove

Physical Observations, Remarks: Brown, odorous liquid - extremely
low flow drop once every 2 seconds

Flow	Field Dissolved Oxygen	Field pH	Field Temp.
_____ Arsenic	_____ Coliform/100ml	_____ BOD	
_____ Barium	_____ Fecal Coliform	_____ COD	
_____ Boron	_____ Fecal Strep	_____ TS/EC	
_____ Cadmium	_____ Algae (Total) /ml	_____ Susp. Solids	
_____ Copper	_____ Ammonia (N)	_____ Vol. Susp. Solids	
_____ Chromium (tri)	_____ Organic Nitrogen (N)	_____ pH (units)	
_____ Chromium (hex)	_____ Nitrate + Nitrite (N)	_____ Turbidity (JTU)	
_____ Iron (Total)	_____ Phosphorus (P)	_____ Hardness	
_____ Iron (Dissolved)	_____ Chloride	_____ Alkalinity	
_____ Lead	_____ Fluoride	_____ Total Acidity	
_____ Manganese	_____ Sulfate	_____ Free Acidity	
_____ Mercury (ppb)	<u>480</u> <u>Cyanide</u> (total) mg/L	_____ Oil	
_____ Nickel	_____ MBAS	_____ Other (Specify)	
_____ Selenium	_____ Phenol (ppb)		
_____ Silver			
_____ Zinc			

Results in mg/l unless
otherwise noted.

100% Recycled Paper
IL532-0546
LABS 3 3/73

Transported by: Lanett
Received by: _____
Transported by: _____
Received by: _____

FOR LAB USE ONLY
Lab Number: 0001198 Rec'd by: J. L. Che
Date sample rec'd: 8-18-83 Time: 3:15
Date analysis completed: _____
Date results forwarded: AUG 24 1983
Total Tests requested: _____ Tests run: _____
Lab Section: Chicgo Supervisor: Daugherty

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SPECIAL ANALYSIS FORM

Time Collected 300 PM

Sub-Basin

01199 AUG 19

Date Collected 8/18/83

Collector

Jack Barnette

Facility Name: Gemini Trucking Facility Number:

File Town

Hodgkin

Stream Name(s)

Stream Code:

Source of Sample: (Exact Location)

pool of Brown liquid standing near trucks which contain cyanide tainted plastic chips

Physical Observations, Remarks:

Brown, odorous liquid

(Septic, ammonia type odor)

Flow	Field Dissolved Oxygen	Field pH	Field Temp.
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_____ Arsenic	_____ Coliform/100ml	_____ BOD
_____ Barium	_____ Fecal Coliform	_____ COD
_____ Boron	_____ Fecal Strep	_____ TS/EC
_____ Cadmium	_____ 100 ml	_____ Susp. Solids
_____ Copper	_____ Algae (Total) /ml	_____ Vol. Susp. Solids
_____ Chromium (tri)	_____ (Ammonia (N)) ⁵⁸ ?	_____ pH (units)
_____ Chromium (hex)	_____ Organic Nitrogen (N)	_____ Turbidity (JTU)
_____ Iron (Total)	_____ Nitrate + Nitrite (N)	_____ Hardness
_____ Iron (Dissolved)	_____ Phosphorus (P) ¹⁵	_____ Alkalinity
_____ Lead	_____ Chloride	_____ Total Acidity
_____ Manganese	_____ Fluoride	_____ Free Acidity
_____ Mercury (ppb)	_____ Sulfate	_____ Oil
_____ Nickel	_____ Cyanide ^(total) <u>67.5</u> mg/l	_____ Other (Specify)
_____ Selenium	_____ MBAS	
_____ Silver	_____ Phenol (ppb)	
_____ Zinc		

Results in mg/l unless otherwise noted.

100% Recycled Paper
IL532-0546
LAOS 3 3/77

Transported by: <u>Barnette</u>
Received by: _____
Transported by: _____
Received by: _____

FOR LAB USE ONLY	
Lab Number: <u>0001199</u>	Rec'd by: <u>J. Barnette</u>
Date sample rec'd: <u>8/18/83</u>	Time: <u>3:15 PM</u>
Date analysis completed: _____	
Date results forwarded: <u>AUG 24 1983</u>	
Total Tests requested: _____	Tests run: _____
Lab Section: <u>Chicago</u>	Supervisor: <u>[Signature]</u>

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

01314 AUG25

SPECIAL ANALYSIS FORM

Time Collected 2 PM Sub-Basin _____
Date Collected 8-23-83 Collector Barnette
Facility Name: J's Trailers Facility Number: _____ File Town McCook
Stream Name(s) _____ Stream Code: _____

Source of Sample: (Exact Location) ground under trailer
containing plastic chips, along North Fence line

Physical Observations, Remarks: Brown-Black, odorous
(A similar liquid was observed dripping from
several of the trailers)

Flow	Field Dissolved Oxygen	Field pH	Field Temp.
_____ Arsenic	_____ Coliform/100ml	_____ BOD	
_____ Barium	_____ Fecal Coliform	_____ COD	
_____ Boron	_____ Fecal Strep	_____ TS/EC	
_____ Cadmium	_____ Algae (Total) /ml	_____ Susp.Solids	
_____ Copper	_____ Ammonia (N)	_____ Vol.Susp.Solids	
_____ Chromium (tri)	_____ Organic Nitrogen (N)	_____ pH (units)	
_____ Chromium (hex)	_____ Nitrate + Nitrite (N)	_____ Turbidity (JTU)	
_____ Iron (Total)	_____ Phosphorus (P)	_____ Hardness	
_____ Iron (Dissolved)	_____ Chloride	_____ Alkalinity	
_____ Lead	_____ Fluoride	_____ Total Acidity	
_____ Manganese	_____ Sulfate	_____ Free Acidity	
_____ Mercury (ppb)	<u>1025</u> _____ Cyanide	_____ Oil	
_____ Nickel	_____ MBAS	_____ Other (Specify)	
_____ Selenium	_____ Phenol (ppb)		
_____ Silver			
_____ Zinc			

Results in mg/l unless
otherwise noted.

100% Recycled Paper
IL532-0546
EABS 3 3/71

Transported by: Barnette
Received by: _____
Transported by: _____
Received by: _____

FOR LAB USE ONLY
Lab Number: 0001314 Rec'd by: Dougherty
Date sample rec'd: 8/25/83 Time: 9:30
Date analysis completed: _____
Date results forwarded: SEP -8. 1983
Total Tests requested: _____ Tests run: _____
Lab Section: Chem Supervisor: Dougherty